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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0207161F I Tactical AIM Missiles							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	96.110	33.615	52.898	34.952	0.000	34.952	24.711	13.367	13.598	13.877	0.000	283.128
674132: AIM-9 Product Improvement	96.110	33.615	52.898	34.952	0.000	34.952	24.711	13.367	13.598	13.877	0.000	283.128
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Program MDAP/MAIS Code: 442

Note

Funding in FY11 and out is for the Block II program only. The AIM-9X Block I program costs for FY11 and prior are \$233.583M.

A. Mission Description and Budget Item Justification

Air Intercept Missile-9X is a long-term evolution of the AIM-9 series of fielded missiles, qualifying this as a research category operational systems development. The AIM-9X short range Air-to-Air missile modification program provides a launch and leave, air combat munition that uses passive Infra-Red (IR) energy for acquisition and tracking of enemy aircraft and complements the Advanced Medium Range Air-to-Air Missile. Air superiority in the short range Air-to-Air Missile arena is essential and includes first shot, first kill opportunity against an enemy employing IR countermeasures. The AIM-9X employs several components common with the AIM-9M (fuze, rocket motor and warhead). The AIM-9X Block II missile is critical to project power and win decisively in accordance with the Fiscal Year 2015 Defense Planning Guidance. The missile is essential to Pacific Command plans to counter threats employing advanced Digital Radio Frequency Memory (DRFM) jamming, cruise missiles, and Unmanned Aerial Vehicles.

The Block II program has completed Independent Operational Testing and found to be Operationally Effective and Suitable. The program obtained a Full Rate Production decision in August 2015, with the first Full Rate Production Lot contract awarded in September 2015. This budget line will continue technical refresh of critical obsolete components, implement cost reduction initiatives, improve insensitive munitions performance, correct deficiencies, increase capabilities through software enhancements, and conduct testing to ensure platform integration onto threshold US Air Force aircraft.

AIM-9X Block I concluded in FY 2011 and all funding/quantity data in the documents are associated with Block II activities.

BA7- This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development		R-1 Program Element (Number/Name) PE 0207161F / Tactical AIM Missiles						
B. Program Change Summary (\$ in Millions)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total		
Previous President's Budget		43.360	52.898	44.751	0.000	44.751		
Current President's Budget		33.615	52.898	34.952	0.000	34.952		
Total Adjustments		-9.745	0.000	-9.799	0.000	-9.799		
• Congressional General Reductions		0.000	0.000					
• Congressional Directed Reductions		0.000	0.000					
• Congressional Rescissions		0.000	0.000					
• Congressional Adds		0.000	0.000					
• Congressional Directed Transfers		0.000	0.000					
• Reprogrammings		-8.403	0.000					
• SBIR/STTR Transfer		-1.342	0.000					
• Other Adjustments		0.000	0.000	-9.799	0.000	-9.799		
Change Summary Explanation								
FY 2016 decrease for higher Air Force priorities.								
FY 2018 change due to SIP III rephasing								
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Title: AIM- 9X Product Development				32.590	50.598	30.645	0.000	30.645
Description: Continuation of Primary Hardware Development/Pre-Planned Product Improvement (Tech Refresh) efforts for the AIM-9X weapon system. This includes Systems Engineering/Program Management (SEPM), as well as associated governmental and contractor support required to ensure AIM-9X missile integration with threshold aircraft platforms. Also, includes efforts to redesign missile components in order to resolve Block II component obsolescence, implement cost reduction initiatives, and to comply with the Insensitive Munitions (IM) requirements as established by Joint Requirements Oversight Council memo dated 11 February 2009.								
FY 2016 Accomplishments: Continued EMD efforts to redesign, integrate, test and qualify components due to obsolescence and implement cost reduction initiatives. Continue development of v9.4 Block II software and integration efforts with threshold aircraft platforms including improvements associated with the F-15 to utilize full capability of the Block II missile. Continued study on IM alternatives and risk reduction methods to enhance IM performance.								
FY 2017 Plans:								

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Continue EMD required to redesign, integrate, test and qualify components due to obsolescence and implement cost reduction initiatives. Continue to develop v9.4 Block II software improvements to utilize full capability of the missile. Continue to develop missile hardware design improvements necessary to enhance IM performance. FY 2018 Base Plans: Complete Developmental Testing and Integrated Testing (DT/IT-D1) and Operational Test Readiness Review, then begin Operational Testing (OT-D1)of Operational Flight Software version 9.4 including improvements associated with further integrating the threshold aircraft to utilize full capability of the Block II missile. FY 2018 OCO Plans: N/A						
Title: AIM- 9X, Test and Evaluation Description: Test and Evaluation (T&E) and associated governmental support required to ensure the AIM-9X missile integration with threshold US Air Force aircraft platforms (F-15, F-16, F-22, F-35). Beginning in FY 2016 the program joined in with the US Navy efforts in testing the next tech refresh version of software improvements to the missile, Operation Flight Software version 9.4. FY 2016 Accomplishments: Continued EMD efforts to redesign, integrate, test and qualify components due to obsolescence and implement cost reduction initiatives. Continue development of v9.4 Block II software and integration efforts with threshold aircraft platforms including improvements associated with the F-15 to utilize full capability of the Block II missile. Continued study on IM alternatives and risk reduction methods to enhance IM performance. FY 2017 Plans: Continue Developmental and Integrated Testing (DT/IT-D1) of Operational Flight Software version 9.4. FY 2018 Base Plans: Complete Developmental Testing and Integrated Testing (DT/IT-D1) and Operational Testing Readiness Review, then begin Operational Testing (OT-D1)of Operational Flight Software version 9.4 including improvements associated with further integrating the threshold aircraft to utilize full capability of the Block II missile.		1.025	2.300	4.307	-	4.307
Accomplishments/Planned Programs Subtotals		33.615	52.898	34.952	0.000	34.952

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Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development				R-1 Program Element (Number/Name) PE 0207161F I Tactical AIM Missiles							
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
• MPAF: BA02: Line Item # M09HAI: Sidewinder (AIM-9X)	198.247	127.438	125.350	0.000	125.350	122.340	125.299	168.454	120.827	122.343	1,579.432
• MPAF: BA04: Line Item # 000999: Replen Spares, USAF	10.755	11.015	11.199	0.000	11.199	11.350	11.543	11.748	11.959	Continuing	Continuing
• MPAF: BA04: Line Item # 000999: Inital Spares, USAF	0.604	7.684	5.708	0.000	5.708	4.294	4.324	1.881	1.915	9.115	41.367
• RDTE: BA07: PE 0207161N: Tactical AIM Missile	59.053	56.285	42.884	0.000	42.884	33.458	0.513	0.539	0.554	0.000	298.864
• WPN: BA02: Line Item # 2209: Sidewinder	92.497	70.912	79.692	0.000	79.692	79.047	82.261	89.842	91.638	491.373	1,414.998
Remarks											
E. Acquisition Strategy											
The program received USN Initial Operational Capability (IOC) in March 2015 and Full Rate Production (FRP) Approval in August 2015 followed by contract award for FRP-1 in September 2015. The Air Force achieved Initial Operational Capability in September 2016. The program modified the production contract in July 2016 to award option year 1 for FRP-2 and add option year 2 for FRP-3 with both awards FFP contracts. Option year 2 will be awarded in March 2017. The program plans to award FRP-4 in May 2018.											
F. Performance Metrics											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Air Force												Date: May 2017			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0207161F / <i>Tactical AIM Missiles</i>				Project (Number/Name) 674132 / <i>AIM-9 Product Improvement</i>					
Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
RMS Software/OFP Upgrade	SS/CPFF	RMS : Tucson, AZ	62.481	29.052	Mar 2016	46.443	Jan 2017	26.613	Jan 2018	0.000		26.613	50.217	214.806	214.806
Munitions Improvement Study (USG)	SS/CPFF	NAWC WD : China Lake, CA	2.977	3.148	Mar 2016	3.175	Jan 2017	3.202	Jan 2018	0.000		3.202	6.579	19.081	19.081
Systems Engineering (USG)	WR	NAWC WD : China Lake, CA	1.903	0.390	Aug 2016	0.480	Aug 2017	0.330	Aug 2018	0.000		0.330	0.330	3.433	3.433
Aircraft Integration	SS/CPFF	Boeing : St. Louis, MO	0.000	0.000		0.500	Jun 2017	0.500	Jun 2018	0.000		0.500	1.000	2.000	2.000
Subtotal			67.361	32.590		50.598		30.645		0.000		30.645	58.126	239.320	239.320
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DT&E/OT&E for P3I	PO	Eglin AFB : Eglin, FL	21.836	0.800	Mar 2016	1.960	Mar 2017	3.590	Mar 2018	0.000		3.590	5.950	34.136	34.136
IT/OT Support F-15	MIPR	Various : Various	0.000	0.000		0.080	Apr 2017	0.457	Jan 2018	0.000		0.457	0.457	0.994	0.994
Subtotal			21.836	0.800		2.040		4.047		0.000		4.047	6.407	35.130	35.130
Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMA	MIPR	PMA-259 : Patuxent River, MD	6.913	0.225	Mar 2016	0.260	Mar 2017	0.260	Mar 2018	0.000		0.260	1.020	8.678	8.678
Subtotal			6.913	0.225		0.260		0.260		0.000		0.260	1.020	8.678	8.678

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Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207161F / <i>Tactical AIM Missiles</i>					Project (Number/Name) 674132 / <i>AIM-9 Product Improvement</i>					
Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Remarks FY16 Decrease in CS support.															
			Prior Years	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			96.110	33.615		52.898		34.952		0.000		34.952	65.553	283.128	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Air Force			Date: May 2017
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207161F / Tactical AIM Missiles	Project (Number/Name) 674132 / AIM-9 Product Improvement	

	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Production Milestones - Block II: Contract Awards: Lot 16 (FRP 2)																												
Production Milestones - Block II: Contract Awards: Lot 17 (FRP 3)																												
Production Milestones - Block II: Contract Awards: Lot 18 (FRP 4)																												
Production Milestones - Block II: Contract Awards: Lot 19 (FRP 5)																												
Production Milestones - Block II: Contract Awards: Lot 20 (FRP 6)																												
Production Milestones - Block II: Contract Awards: Lot 21 (FRP 7)																												
Production Milestones - Block II: Contract Awards: Lot 22 (FRP 78)																												
Production Deliveries: Low Rate Initial Production 4 (Lot 14)																												
Production Deliveries: Lot 15 (FRP 1)																												
Production Deliveries: Lot 16 (FRP 2)																												
Production Deliveries: Lot 17 (FRP 3)																												
Production Deliveries: Lot 18 (FRP 4)																												
Production Deliveries: Lot 19 (FRP 5)																												
Production Deliveries : Lot 20 (FRP 6)																												
AIM-9X Block II: System Improvement Program Contract Award: System Improvement Program II Engineering Manufacturing Development Contract																												

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Air Force																				Date: May 2017								
Appropriation/Budget Activity										R-1 Program Element (Number/Name)								Project (Number/Name)										
3600 / 7										PE 0207161F / Tactical AIM Missiles								674132 / AIM-9 Product Improvement										
	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
AIM-9X Block II: Hardware & Software (v9.3) Improvements: Air Force Initial Operational Capability																												
AIM-9X Block II: Hardware and Software (v9.3) Improvements : Operational Flight Software Release v9.315																												
AIM-9X Block II: Hardware and Software (v9.3) Improvements : Operational Flight Software Release v9.316																												
AIM-9X Block II: Hardware and Software (v9.3) Improvements : Operational Flight Software Release v9.317																												
AIM-9X Block II Tech Refresh: Tech Refresh Development Contracts: System Improvement Program III Engineering Manufacturing Development Contract																												
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 17 Cut In: Lot 17 Hardware (CAS Battery & Block 2+)																												
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 17 Cut In: Lot 17 Hardware Cut-In Preliminary Design Review																												
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 17 Cut In: Lot 17 Hardware Cut-In Critical Design Review																												
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 17 Cut In: Lot 17 Hardware Cut-In Engineering Change Proposal																												
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 20 Cut In: Hardware (CAS, IMU, Dome & Processor)																												

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Air Force																				Date: May 2017								
Appropriation/Budget Activity										R-1 Program Element (Number/Name)								Project (Number/Name)										
3600 / 7										PE 0207161F / Tactical AIM Missiles								674132 / AIM-9 Product Improvement										
	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 20 Cut In: Lot 20 Hardware Cut-In Preliminary Design Review																												
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 20 Cut In: Lot 20 Hardware Cut-In Critical Design Review																												
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 20 Cut In: Lot 20 Hardware Cut-In Engineering Change Proposal																												
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v9.4) Improvements: Development Testing (DT-D1)																												
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v9.4) Improvements: Development Test / Integrated Testing (DT-D1 / IT-D1)																												
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v9.4) Improvements: Operational Testing (OT-D1)																												
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v9.4) Improvements: Software v9.4 Release																												
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v10.x) Rehost: Software v10.4 Development Testing																												
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v10.x) Rehost: Software v10.4 Release																												

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Air Force			Date: May 2017
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207161F / <i>Tactical AIM Missiles</i>	Project (Number/Name) 674132 / <i>AIM-9 Product Improvement</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Production Milestones - Block II: Contract Awards: Lot 16 (FRP 2)	4	2016	4	2016
Production Milestones - Block II: Contract Awards: Lot 17 (FRP 3)	2	2017	2	2017
Production Milestones - Block II: Contract Awards: Lot 18 (FRP 4)	2	2018	2	2018
Production Milestones - Block II: Contract Awards: Lot 19 (FRP 5)	2	2019	2	2019
Production Milestones - Block II: Contract Awards: Lot 20 (FRP 6)	2	2020	2	2020
Production Milestones - Block II: Contract Awards: Lot 21 (FRP 7)	2	2021	2	2021
Production Milestones - Block II: Contract Awards: Lot 22 (FRP 78)	2	2022	2	2022
Production Deliveries: Low Rate Initial Production 4 (Lot 14)	4	2016	4	2016
Production Deliveries: Lot 15 (FRP 1)	4	2016	4	2017
Production Deliveries: Lot 16 (FRP 2)	4	2017	4	2018
Production Deliveries: Lot 17 (FRP 3)	4	2018	4	2019
Production Deliveries: Lot 18 (FRP 4)	4	2019	4	2020
Production Deliveries: Lot 19 (FRP 5)	4	2020	4	2021
Production Deliveries : Lot 20 (FRP 6)	4	2021	4	2022
AIM-9X Block II: System Improvement Program Contract Award: System Improvement Program II Engineering Manufacturing Development Contract	1	2016	2	2017
AIM-9X Block II: Hardware & Software (v9.3) Improvements: Air Force Initial Operational Capability	4	2016	4	2016
AIM-9X Block II: Hardware and Software (v9.3) Improvements : Operational Flight Software Release v9.315	2	2016	2	2016
AIM-9X Block II: Hardware and Software (v9.3) Improvements : Operational Flight Software Release v9.316	2	2017	2	2017
AIM-9X Block II: Hardware and Software (v9.3) Improvements : Operational Flight Software Release v9.317	1	2017	1	2017

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Air Force			Date: May 2017	
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207161F / Tactical AIM Missiles	Project (Number/Name) 674132 / AIM-9 Product Improvement		
	Start		End	
Events	Quarter	Year	Quarter	Year
AIM-9X Block II Tech Refresh: Tech Refresh Development Contracts: System Improvement Program III Engineering Manufacturing Development Contract	1	2016	4	2020
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 17 Cut In: Lot 17 Hardware (CAS Battery & Block 2+)	1	2016	1	2017
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 17 Cut In: Lot 17 Hardware Cut-In Preliminary Design Review	1	2016	1	2016
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 17 Cut In: Lot 17 Hardware Cut-In Critical Design Review	3	2016	3	2016
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 17 Cut In: Lot 17 Hardware Cut-In Engineering Change Proposal	3	2017	3	2017
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 20 Cut In: Hardware (CAS, IMU, Dome & Processor)	1	2016	1	2019
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 20 Cut In: Lot 20 Hardware Cut-In Preliminary Design Review	2	2017	2	2017
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 20 Cut In: Lot 20 Hardware Cut-In Critical Design Review	4	2018	4	2018
AIM-9X Block II Tech Refresh: Hardware Obsolescence Redesign: Lot 20 Cut In: Lot 20 Hardware Cut-In Engineering Change Proposal	1	2020	1	2020
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v9.4) Improvements: Development Testing (DT-D1)	1	2016	4	2017
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v9.4) Improvements: Development Test / Integrated Testing (DT-D1 / IT-D1)	4	2017	4	2018
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v9.4) Improvements: Operational Testing (OT-D1)	4	2018	4	2018
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v9.4) Improvements:Software v9.4 Release	2	2020	2	2020
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v10.x) Rehost: Software v10.4 Development Testing	1	2016	4	2020
AIM-9X Block II Tech Refresh: Test and Evaluation: Software (v10.x) Rehost: Software v10.4 Release	1	2022	1	2022